

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
24 February 2005 (24.02.2005)

PCT

(10) International Publication Number
WO 2005/016132 A2

(51) International Patent Classification⁷: **A61B**

(21) International Application Number:
PCT/US2004/003307

(22) International Filing Date: 4 February 2004 (04.02.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
60/486,918 15 July 2003 (15.07.2003) US

(71) Applicant (for all designated States except US):
TEMASEK LIFE SCIENCES LABORATORY
[SG/SG]; 1 Research Link, National University of Singa-
pore, Singapore 117604 (SG).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **KWANG, Jimmy**
[US/SG]; 54 West Coast Crescent, #03-02, West Bay
Condominium, Singapore 128037 (SG). **LING, Ai, Ee,**
[SG/SG]; Virology Section, Dept. of Pathology, Singapore

General Hospital, Outram Road, Singapore 169608 (SG).
OOI, Eng, Eong [SG/SG]; Environment Health Institute,
National Environment Agency, 41 Science Park Road,
#03-24/28, The Gemini, Singapore 117610 (SG). **CHNG,**
Hlok, Hee [SG/SG]; Department of Rheumatology, Al-
lergy & Immunology, Tan Tock Seng Hospital, 11, Jalan
Tan Tock Seng, Singapore 308433 (SG).

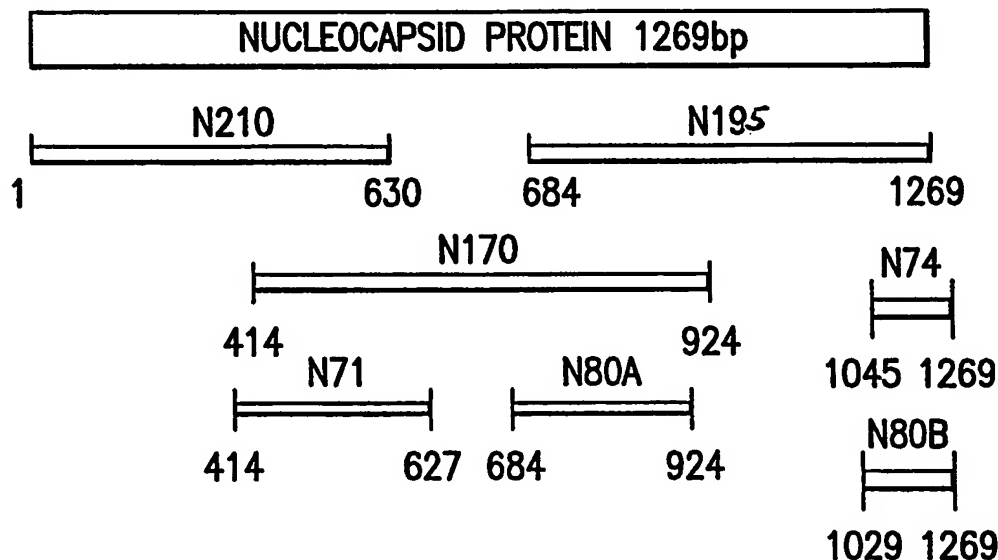
(74) Agents: **ERNST, Barbara, G.** et al.; Rothwell, Figg, Ernst
& Manbeck, P.C., 1425 K Street, N.W., Suite 800, Wash-
ington, DC 20005 (US).

(81) Designated States (unless otherwise indicated, for every
kind of national protection available): AE, AG, AL, AM,
AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,
KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,
MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG,
PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM,
TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM,
ZW.

(84) Designated States (unless otherwise indicated, for every
kind of regional protection available): ARIPO (BW, GH,
GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW),

[Continued on next page]

(54) Title: **DIAGNOSTICS FOR SARS VIRUS**



(57) Abstract: This invention relates to Severe Acute Respiratory Syndrome associated coronavirus (SARS virus) isolated and re-combinant proteins, in particular the nucleocapsid (N) protein and spike (S) protein, as well as fragments thereof and their use in the diagnosis, treatment and prevention of Severe Acute Respiratory Syndrome (SARS). The proteins and fragments carry epitopes that are specific for the SARS virus. Thus, detection methods based on these proteins or fragments as well as the monoclonal antibodies against these proteins or fragments are specific for the SARS virus.



Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NI, SN, TD, TG).

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

Published:

- *without international search report and to be republished upon receipt of that report*